The augmented matrix of the system of equations is

La matriz aumentada del sistema de ecuaciones es:

⟨bmatrix|

$$\begin{array}{lllll} 2 & 3 & 19 & -4 & 2 \\ 1 & 2 & 12 & -3 & 1 \\ -1 & 2 & 8 & -5 & 1 \end{array}$$ ⟩

which row-reduces to

y al ser reducida por filas, nos genera:

⟨bmatrix|

⟨leading|1⟩	0	2	1	0
0	⟨leading|1⟩	5	-2	0
0	0	0	0	⟨leading|1⟩

⟩

With a leading one in the last column ⟨acronymref|theorem|RCLS⟩ tells us the system of equations is inconsistent, so the solution set is the empty set, $\emptyset =$ ×.

debido al 1principal en la ultima columna, nos indica que este sistema es inconsistente, por lo que el conjunto solucion es el conjunto vacio, $\emptyset =$ ×